

AMENDMENTS TO THE CLAIMS

Replace the claims with the following rewritten listing:

1. (Withdrawn) A method of manufacture of reinforced composite products in a closed mould process, comprising:

defining a product moulding volume between a first and a second mould part wherein the moulding volume is in fluid contact to at least one moulding material reservoir and a vacuum source;

drawing the moulding material into the moulding volume when the vacuum is applied to the moulding volume, wherein the first mould part comprises an inner liner of a pre-shaped, flexible modified fluorinated plastic foil and wherein the mould parts are clamped together before the vacuum is applied; and

detaching the mould parts from each other when a predetermined amount of moulding material is filled into the moulding volume, so that the moulded composite product may be removed and the mould is ready for repeating the moulding process.

2. (Withdrawn) A method according to claim 1, wherein the first mould part is a female mould part and the second mould part is a male mould part.

3. (Withdrawn) A method according to claim 1, further comprising providing reinforcement fibre material in the moulding volume prior to an assembly of the first and second mould parts.

4. (Withdrawn) A method according to claim 3, wherein the reinforcement material comprises at least one of a glass, a stone, a ceramic, a carbon, an organic fibre fabric, and a synthetic fibre fabric.

5. (Withdrawn) A method according to claim 1, wherein an inner surface of the foil is smooth.
6. (Withdrawn) A method according to claim 1, wherein an inner surface of the foil is structured.
7. (Withdrawn) A method according to claim 6, wherein the mould parts are assembled and since the structured surface of the foil allows a flow of air to be transported towards the vacuum outlet of the moulding volume, vacuum is applied and gelcoat is drawn or injected into the mould, after curing the mould is opened before the reinforcement fibres are provided and the mould is reassembled and closed moulding process is executed.
8. (Withdrawn) A method according to claim 1, wherein the inner liner is translucent.
9. (Withdrawn) A method according to claim 1, further comprising assembling the first and second mould parts over an annular airtight sealing member encompassing the moulding volume carrying the inner liner, said airtight sealing member belonging to the second mould part which may be clamped onto the first mould part.
10. (Withdrawn) A method according to claim 9, wherein the sealing member comprises two annular sealing members defining an annular sealing volume around the moulding volume, and the vacuum is applied to the annular sealing volume.
11. (Withdrawn) A method according to claim 10, wherein a vacuum in the sealing volume is larger than a vacuum in the moulding volume during the vacuum forming process.

12. (Withdrawn) A method according to claim 1, wherein the foil is a fluoroplastic laminated foil with a thickness of 0.05 to 1.5 mm, which can be assembled in small or big panels suited to the products to be moulded.

13. (Withdrawn) A method according to claim 1, wherein prior to initiating the moulding process, a reinforcement fibre mat is placed over the inner liner which in turn is placed over an airbag, which is then inflated to fill out a space inside one of the first and second mould parts and to put the inner liner and the fibre reinforcement in place relative to the other mould form part.

14. (Withdrawn) A method according to claim 1, wherein the moulding material is supplied into the moulding volume under pressure using vacuum assisted pressure injection.

15. (Currently Amended) A moulding device for manufacture of reinforced composites products in a closed mould process, comprising:

a product moulding volume defined between a first and a second mould part, the moulding volume being in fluid contact with at least one moulding material reservoir and a vacuum source, wherein the moulding material is drawn into the moulding volume when the vacuum is applied to the moulding volume;

wherein the first mould part comprises an inner liner of a pre-shaped, flexible modified fluorinated plastic foil and wherein the mould parts are clamped together before the vacuum is applied and detached again when the moulding volume is filled and the moulding process is over, such that the moulded composite product~~member~~ may be removed and the mould is ready for repeating the moulding process.

16. (Original) A moulding device according to claim 15, wherein the first mould part is a female mould part and the second mould part is a male mould part.

17. (Previously Presented) A moulding device according to claim 15, wherein a reinforcement fibre material is provided in the moulding volume prior to an assembly of the first and second mould parts.

18. (Previously Presented) A moulding device according to claim 15, wherein the reinforcement material comprises at least one of a glass, a stone, a ceramic, a carbon, an organic fibre fabric, and a synthetic fibre fabric.

19. (Previously Presented) A moulding device according to claim 15, wherein an inner surface of the foil is smooth.

20. (Previously Presented) A moulding device according to claim 15, wherein an inner surface of the foil is structured.

21. (Previously Presented) A moulding device according to claim 15, wherein the inner liner is translucent.

22. (Previously Presented) A moulding device according to claim 15, wherein the foil is a laminate comprising a plurality of layers of fluoroplastic material selected from the group consisting of PFA (perfluoro alkoxy), FEP (Fluorinated ethylene propylene, TFE (tetra flour ethylene), ETFE (ethylene tetra flour ethylene), ECTFE (ethylene chloride triflour ethylene), TFM (modified polytetrafluoroethylene), and virgin PTFE (polytetrafluoroethylene).

23. (Previously Presented) A moulding device according to claim 15, wherein the foil comprises an extruded plastified fluoroplast selected from the group consisting of PFA (perfluoro alkoxy), FEP (Fluorinated ethylene propylene, TFE (tetra flour ethylene), ETFE (ethylene tetra flour ethylene), ECTFE (ethylene chloride triflour ethylene), TFM (modified polytetrafluoroethylene) and similar materials.

24. (Previously Presented) A moulding device according to claim 15, wherein the first and second mould parts are assembled over an annular airtight sealing member encompassing the moulding volume carrying the inner liner, said airtight sealing member belonging to the second mould part which may be clamped onto the first mould part.

25. (Previously Presented) A moulding device according to claim 24, wherein the sealing member between the first and second mould part comprises two annular sealing members defining an annular sealing volume around the moulding volume, and vacuum is applied to the annular sealing volume.

26. (Previously Presented) A moulding device according to claim 25, wherein a vacuum in the sealing volume is larger than a vacuum in the moulding volume during the vacuum forming process.

27. (Previously Presented) A moulding device according to claim 15, wherein the inner liner is pre-shaped to correspond to a shape of the product to be moulded.

28. (Previously Presented) A moulding device according to claim 15, wherein the foil is a fluoroplastic laminated foil with a thickness of 0.05 to 1.5 mm which can be assembled in small or big panels suited to the products to be moulded.

29. (Previously Presented) An inner liner for a vacuum infusion moulding process for manufacture of fibre reinforced composite products, comprising:
a product moulding volume defined between the inner liner, constituting a first mould part, and a second mould part, wherein the moulding volume is in fluid contact with at least one moulding material reservoir and a vacuum source, and wherein the moulding material is drawn into the moulding volume when the vacuum is applied to the moulding volume, and wherein the inner liner is a pre-shaped, flexible modified fluorinated plastic foil.

30. (Previously Presented) An inner liner according to claim 29, wherein the laminate comprises a plurality of layers of a fluoroplastic material selected from the group consisting of PFA (perfluoro alkoxy), FEP (Fluorinated ethylene propylene, TFE (tetra flour ethylene), ETFE (ethylene tetra flour ethylene), ECTFE (ethylene chloride triflour ethylene), TFM (modified polytetrafluoroethylene), and virgin PTFE (polytetrafluoroethylene).